D10.1 User Manual and Screen Shots of the Web Application (CWRIS Population Level Information System)

Introduction page

The web application is currently available at http://aegro.bafz.de/aegroprod/. Currently it runs only on the *Prunus* database, which has been completed largely by semiautomatic procedures from the data sources. Certainly several data still need editing and improvement or geo-referencing. The web application will support this in later stages (see document “Use Cases for a Population Level Crop Wild Relative Information System”: Use Case 11). Currently it implements use cases 1 (Search for occurrences by taxon information), 2 (Search for occurrences by geographic in-formation), 3 (Combined search for occurrences by geographic information, Eurostat administrative units (NUTS, LAU)) and 4 (Display result sets on a map).

Figure 1 shows the introductory page of the CWRIS-AEGRO Population Level Information System.

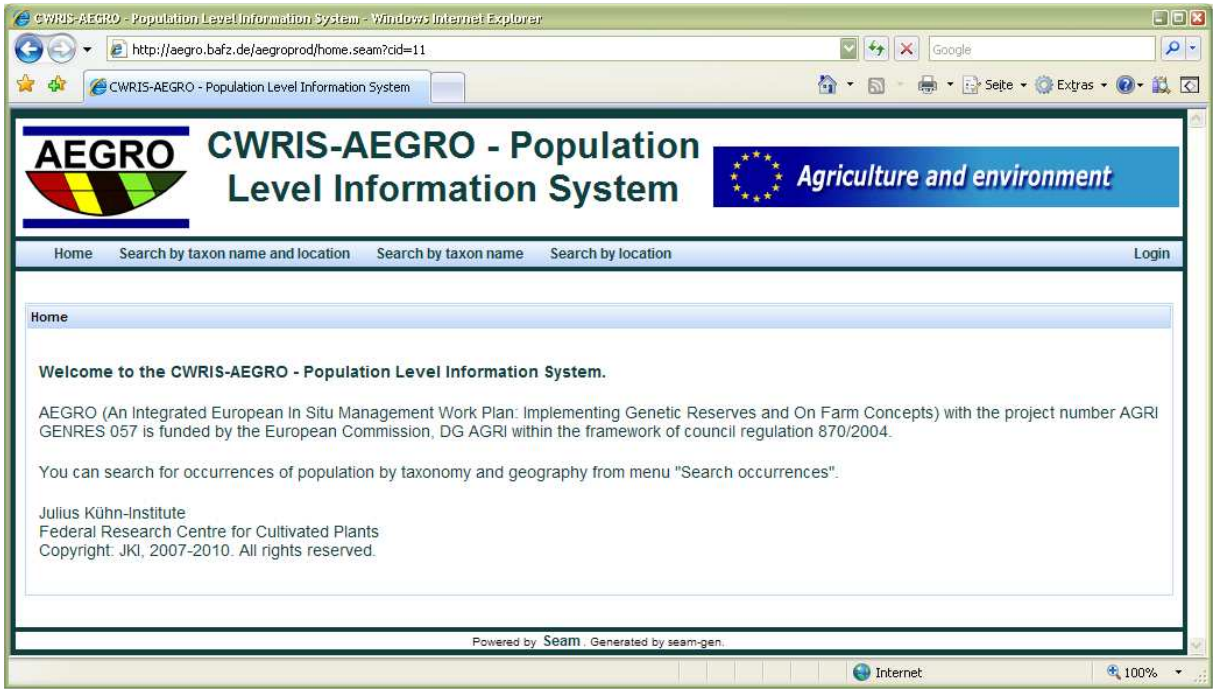
CWRIS-AEGRO - Population Level Information System - Windows Internet Explorer
http://aegro.bafz.de/aegroprod/home.seam?cid=11
CWRIS-AEGRO - Population Level Information System
AEGRO
CWRIS-AEGRO - Population Level Information System
Agriculture and environment
Home
Search by taxon name and location
Search by taxon name
Search by location
Login
Home
Welcome to the CWRIS-AEGRO - Population Level Information System.
AEGRO (An Integrated European In Situ Management Work Plan: Implementing Genetic Reserves and On Farm Concepts) with the project number AGRI GENRES 057 is funded by the European Commission, DG AGRI within the framework of council regulation 870/2004.
You can search for occurrences of population by taxonomy and geography from menu "Search occurrences".
Julius Kühn-Institute
Federal Research Centre for Cultivated Plants
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Figure 1 Introductory page of the CWRIS - AEGRO Population Level Information System.

2. Search Form

The search form (Fig.2) allows search by scientific name and / or geography. It allows for hierarchical search through taxonomic ranks or administrative levels. All input fields are defined for comboboxes. They combine displaying data available in the database as drop down lists for selection with suggestion box functionality suggesting completion from letters already entered by the user.
When starting with a higher rank / level the combo boxes of the lower ones are adapted to include for display only those entries valid for the already set restrictions. The user is continuously notified about the number of occurrences fulfilling the restrictions to avoid running into empty result sets. To avoid extremely long runtimes these adaptations are only performed with a minimum of restrictions. When a search should be performed without sufficient restrictions, e.g. only by a genus, the user can enforce this by clicking search manual.

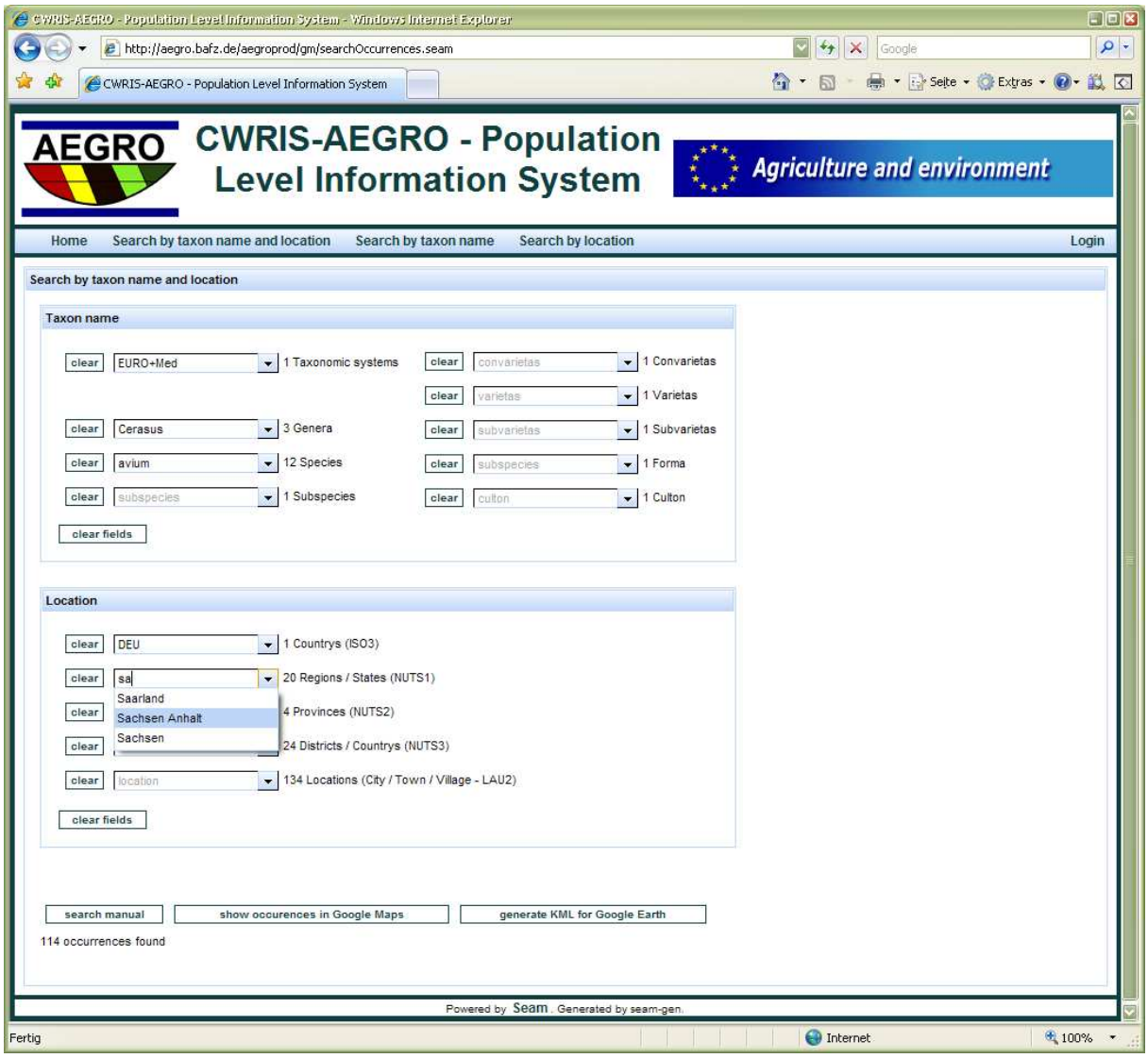

Figure 2 Search for occurrences by taxonomy and geography.

The occurrence data can be displayed on a map online using the Google Maps Web Service or offline using the free downloadable Google Earth software. To feed Google Earth an XML file called KML needs to be created. Figure 3 shows occurrences for *Cerasus avium* in Sachsen Anhalt, a region of Germany. *Cerasus avium* is a synonym of *Prunus avium* translated by the EURO+Med system. For both taxa, the same occurrences are found. Few markers are far off the bulk and obviously not from Sachsen Anhalt. In these cases the site converter process has not been successful because of ambiguous location names. For Germany these errors are relatively rare, because these data were easily to handle with the site converter. Another specific of Germany and UK is the regular pattern of the markers. This is because the points do not represent individuals or patches of plants but reference points of maps used in floristic surveys.

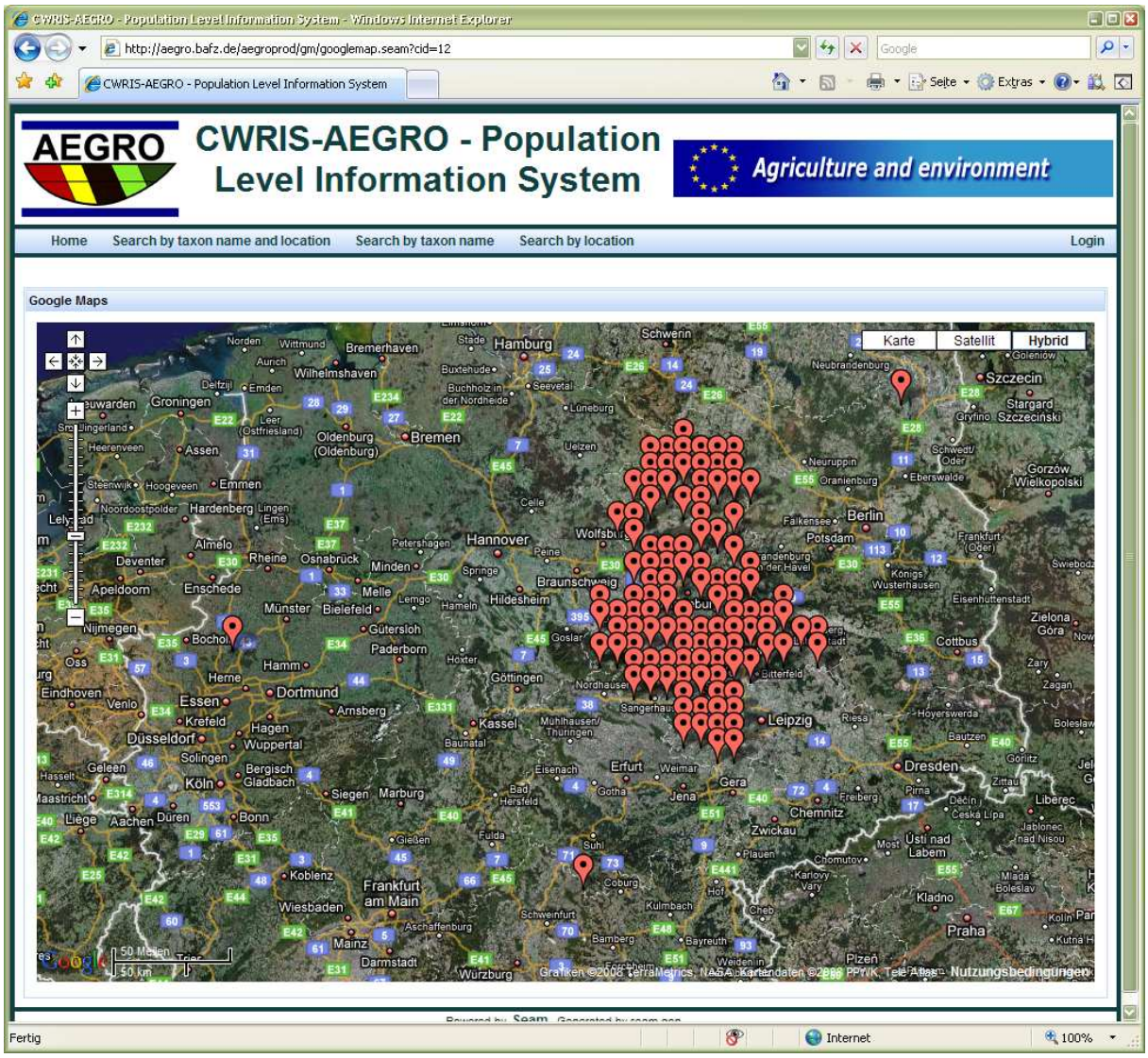

Figure 3 Display of occurrences of *Prunus avium* in Sachsen Anhalt

By adding additional restrictions only occurrences within the district of Quedlinburg are displayed (Figure 4). Additional information on an occurrence represented by a marker can be displayed by click to the marker (Figure 5).

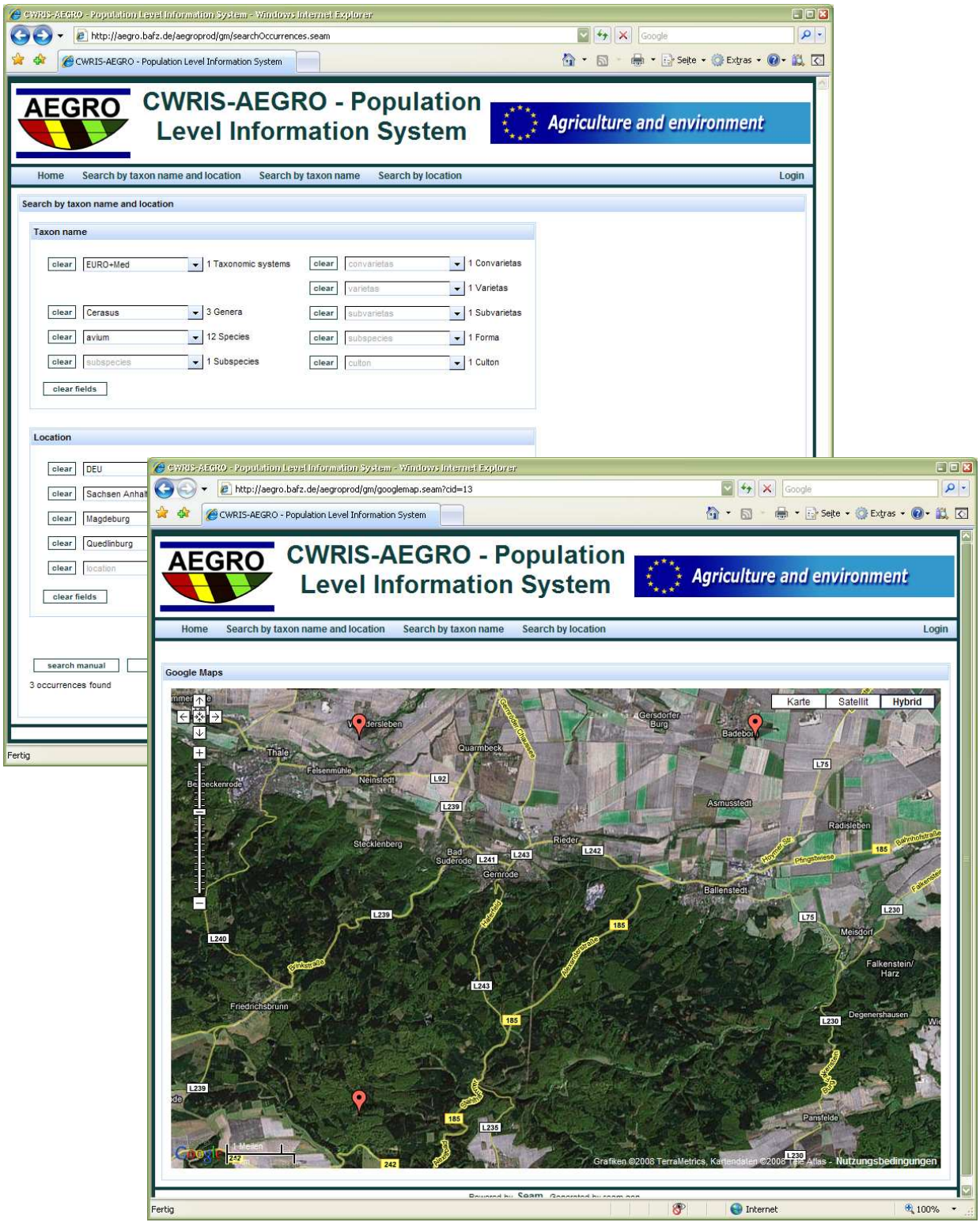

Figure 4 Display of occurrences of *Prunus avium* in the district of Quedlinburg

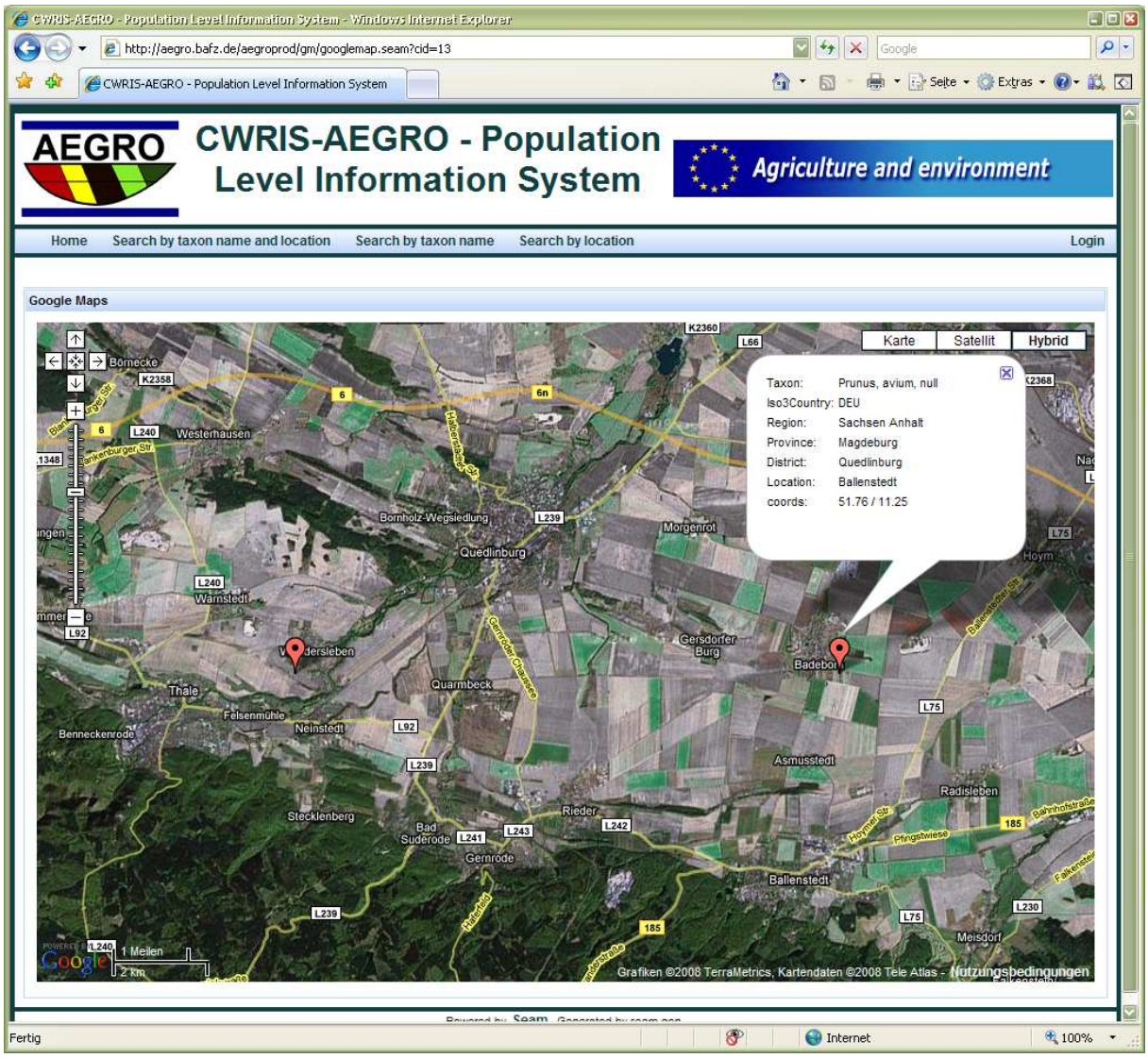

Figure 5 Display of occurrences of *Prunus avium* in the district of Quedlinburg with additional information from the database displayed.